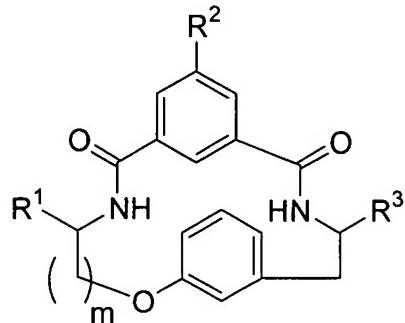


Listing of Claims

The listing of claims will replace all prior versions, and listings, of claims in the application. There are no claim amendments.

Claim 1 (Original) A compound of the formula I:



I

wherein:

R¹ is selected from the group consisting of:

- (1) hydrogen,
- (2) -C₁-6alkyl, -C₂-6alkenyl, -C₂-6alkynyl, or -C₃-8cycloalkyl which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
 - (a) halo,
 - (b) hydroxy,
 - (c) -O-C₁-6alkyl,
 - (d) -C₃-6cycloalkyl,
 - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
 - (i) -C₁-6alkyl,
 - (ii) -C₃-6cycloalkyl,
 - (iii) -O-C₁-6alkyl,
 - (iv) halo,
 - (v) hydroxy,
 - (vi) -CF₃,
 - (vii) -OCF₃,

- (viii) $-NR^9R^{10}$, and
- (ix) $-CN$,
- (f) $-CO_2R^9$, wherein R^9 is independently selected from:
 - (i) hydrogen,
 - (ii) $-C_1\text{-}6$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
 - (iii) benzyl, and
 - (iv) phenyl,
- (g) $-NR^9R^{10}$, wherein R^{10} is independently selected from:
 - (i) hydrogen,
 - (ii) $-C_1\text{-}6$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
 - (iii) benzyl, and
 - (iv) phenyl,
- (h) $-CONR^9R^{10}$,
- (3) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
 - (a) $-C_1\text{-}6$ alkyl,
 - (b) $-C_1\text{-}6$ alkyl-phenyl,
 - (c) $-C_3\text{-}6$ cycloalkyl,
 - (d) $-O-C_1\text{-}6$ alkyl,
 - (e) halo,
 - (f) hydroxy,
 - (g) $-CF_3$,
 - (h) $-OCF_3$,
 - (i) $-NR^9R^{10}$, and
 - (j) $-CN$;

R^2 is selected from the group consisting of:

- (1) hydrogen,
- (2) $R^4\text{-}S(O)_p^-$,

wherein R^4 is independently selected from the group consisting of:

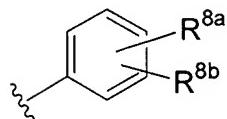
- (a) $-C_1\text{-}6$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

and wherein p is independently 0, 1, or 2,

- (3) $R^4\text{-}S(O)_pN(R^5)^-$,

wherein R^5 is independently selected from the group consisting of:

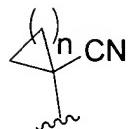
- (a) hydrogen,
- (b) -C₁₋₆alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) phenyl, and
- (d) benzyl,
- (4) -CN,
- (5) -C₁₋₆alkyl-CN,
- (6) halogen,
- (7)



wherein R^{8a} and R^{8b} are independently selected from the group consisting of:

- (a) hydrogen,
- (b) -CN,
- (c) halo,
- (d) -C₁₋₆alkyl,
- (e) -O-R⁵,
- (f) -S-R⁵,
- (g) -CO₂R⁵, and
- (h) tetrazolyl,

(8)



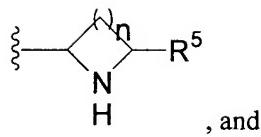
wherein n is 1, 2, 3 or 4;

R³ is selected from the group consisting of:

- (1) -CH(OH)-R⁶,
- (2) -C(O)R⁶,
- (3) -CH(R⁶)-NR⁷R⁹, and
- (4) -C(O)-NR⁷R⁹;

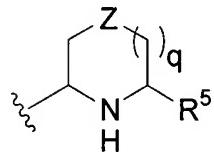
R⁶ is independently selected from the group consisting of:

- (1) hydrogen
- (2) C₁₋₆ alkyl,
- (3)

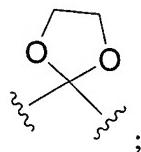


, and

(4)



wherein Z is selected from the group consisting of -C(O)-, -CH(OH)-, and



and wherein q is 1 or 2;

R⁷ is selected from the group consisting of :

- (1) hydrogen,
- (2) -C₁-6alkyl, -C₂-6alkenyl, -C₂-6alkynyl, or -C₃-8cycloalkyl which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
 - (a) halo,
 - (b) hydroxy,
 - (c) -O-C₁-6alkyl,
 - (d) -C₃-6cycloalkyl,
 - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
 - (i) -C₁-6alkyl,
 - (ii) -C₃-6cycloalkyl,
 - (iii) -O-C₁-6alkyl,
 - (iv) halo,
 - (v) hydroxy,
 - (vi) -CF₃,
 - (vii) -OCF₃,
 - (viii) -NR⁹R¹⁰, and
 - (ix) -CN,
 - (f) -CO₂R⁹,

- (g) $-\text{NR}^9\text{R}^{10}$,
- (h) $-\text{CONR}^9\text{R}^{10}$,
- (3) $-\text{CHR}^5\text{-CONR}^9\text{R}^{10}$,
- (4) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
 - (a) $-\text{C}_1\text{-6alkyl}$,
 - (b) $-\text{C}_1\text{-6alkyl-phenyl}$,
 - (c) $-\text{C}_3\text{-6cycloalkyl}$,
 - (d) $-\text{O-C}_1\text{-6alkyl}$,
 - (e) halo,
 - (f) hydroxy,
 - (g) $-\text{CF}_3$,
 - (h) $-\text{OCF}_3$,
 - (i) $-\text{NR}^9\text{R}^{10}$, and
 - (j) $-\text{CN}$;

m is independently 1, 2, 3 or 4;
and pharmaceutically acceptable salts thereof.

Claim 2 (Original) The compound of Claim 1 wherein R^1 is selected from the group consisting of:

- (1) hydrogen,
- (2) $-\text{C}_1\text{-6alkyl}$, which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
 - (a) halo,
 - (b) hydroxy,
 - (c) $-\text{O-C}_1\text{-6alkyl}$,
 - (d) $-\text{C}_3\text{-6cycloalkyl}$,
 - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
 - (i) $-\text{C}_1\text{-6alkyl}$,
 - (ii) $-\text{C}_3\text{-6cycloalkyl}$,
 - (iii) $-\text{O-C}_1\text{-6alkyl}$,
 - (iv) halo,
 - (v) hydroxy,
 - (vi) $-\text{CF}_3$,

- (vii) $-\text{OCF}_3$,
 - (viii) $-\text{NR}^9\text{R}^{10}$, and
 - (ix) $-\text{CN}$,
 - (f) $-\text{CO}_2\text{R}^9$, wherein R^9 is independently selected from:
 - (i) hydrogen,
 - (ii) $-\text{C}_1\text{-6alkyl}$, which is unsubstituted or substituted with 1-6 fluoro,
 - (iii) benzyl, and
 - (iv) phenyl,
 - (g) $-\text{NR}^9\text{R}^{10}$, wherein R^{10} is independently selected from:
 - (i) hydrogen,
 - (ii) $-\text{C}_1\text{-6alkyl}$, which is unsubstituted or substituted with 1-6 fluoro,
 - (iii) benzyl, and
 - (iv) phenyl,
 - (h) $-\text{CONR}^9\text{R}^{10}$,
- (3) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
- (a) $-\text{C}_1\text{-6alkyl}$,
 - (b) $-\text{C}_1\text{-6alkyl-phenyl}$,
 - (c) $-\text{C}_3\text{-6cycloalkyl}$,
 - (d) $-\text{O-C}_1\text{-6alkyl}$,
 - (e) halo,
 - (f) hydroxy,
 - (g) $-\text{CF}_3$,
 - (h) $-\text{OCF}_3$,
 - (i) $-\text{NR}^9\text{R}^{10}$, and
 - (j) $-\text{CN}$.

Claim 3 (Original) The compound of Claim 1 wherein R^1 is selected from the group consisting of:

- (1) hydrogen,
- (2) methyl,
- (3) isopropyl,
- (4) isobutyl, and
- (5) phenyl.

Claim 4 (Original) The compound of Claim 1 wherein R² is:
R⁴-S(O)₂N(R⁵)-,

wherein R⁴ is independently selected from the group consisting of:

- (a) -C₁₋₆alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

and wherein R⁵ is independently selected from the group consisting of:

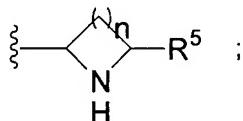
- (a) hydrogen,
- (b) -C₁₋₆alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) phenyl, and
- (d) benzyl.

Claim 5 (Original) The compound of Claim 1 wherein R² is
CH₃-S(O)₂N(CH₃)-.

Claim 6 (Original) The compound of Claim 1 wherein R³ is selected from the group consisting of:

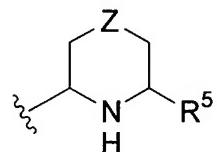
- (1) -CH(OH)-R⁶,
- (2) -C(O)R⁶, and
- (3) -CH(R⁶)-NR⁷R⁹.

Claim 7 (Original) The compound of Claim 1 wherein R⁶ is:



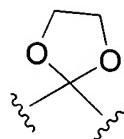
and wherein n is 2 or 3, and R⁵ is hydrogen or methyl.

Claim 8 (Original) The compound of Claim 1 wherein R⁶ is:



wherein R⁵ is hydrogen or methyl, and Z is selected from the group consisting of

-C(O)-, -CH(OH)-, and



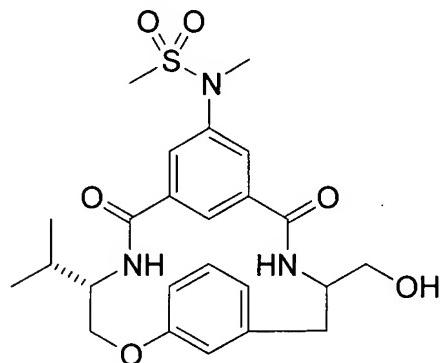
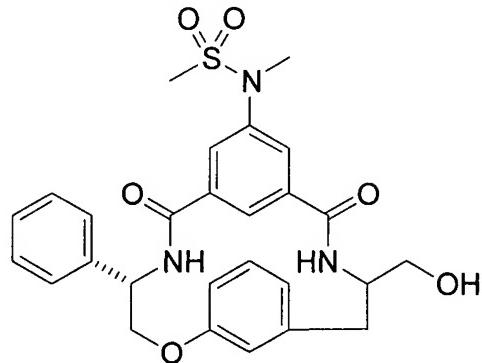
Claim 9 (Original) The compound of Claim 1 wherein R³ is selected from the group consisting of:

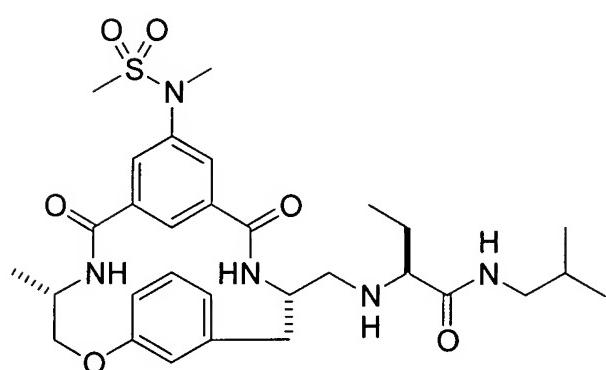
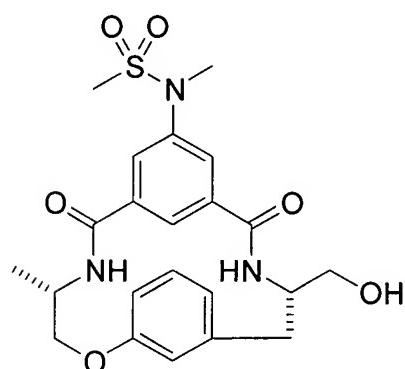
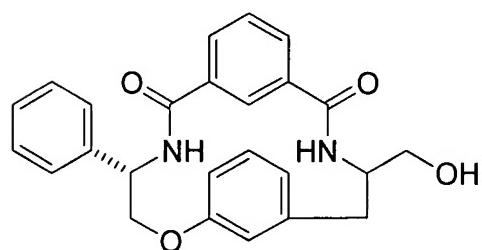
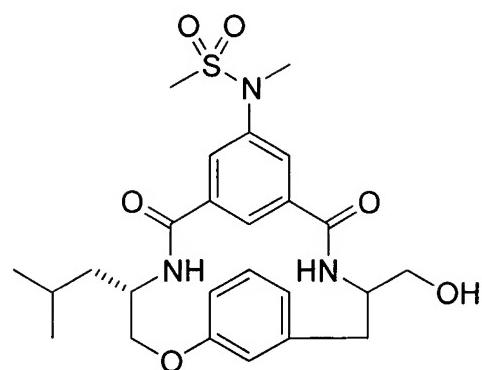
- (1) -CH₂-OH, and
- (2) -CH₂-NH-CH(CH₂CH₃)-CO-NH-CH₂CH(CH₃)₂.

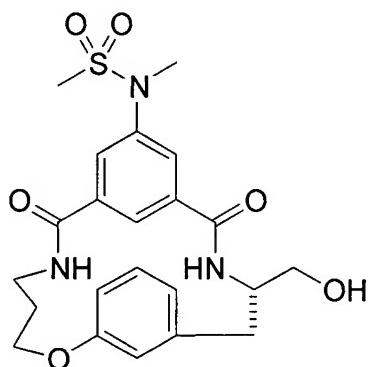
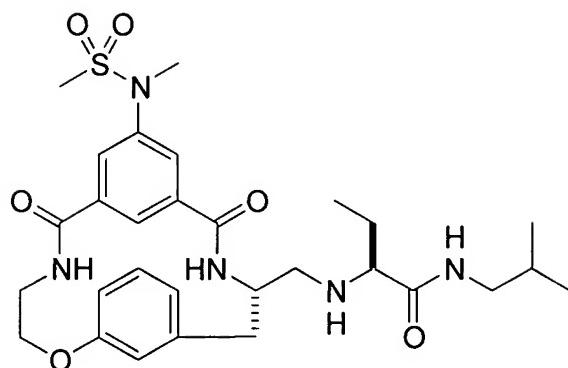
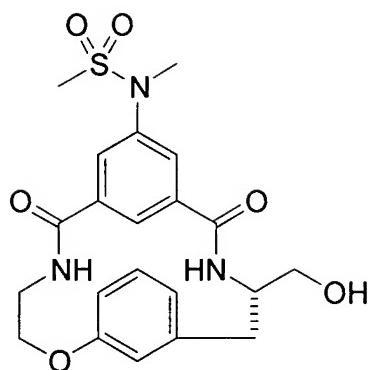
Claim 10 (Original) The compound of Claim 1 wherein m is 1.

Claim 11 (Original) The compound of Claim 1 wherein m is 2.

Claim 12 (Original) A compound which is selected from the group consisting of:







and pharmaceutically acceptable salts thereof.

Claim 13 (Original) A pharmaceutical composition comprising an effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

Claim 14 (Original) A method for inhibition of β -secretase activity in a mammal in need thereof which comprises administering to the mammal a therapeutically effective amount of a compound of Claim 1.

Claim 15 (Original) A method for treating, preventing, controlling, ameliorating or reducing the risk of Alzheimers disease in a patient in need thereof comprising administering to the patient an effective amount of a compound of Claim 1.